

**Road Weather Management Program  
Best Practices for Road Weather Management**

**PUBLICATIONS LIST**

---

**TITLE:**

OPTIMAL CONTROL OF VARIABLE SPEED LIMITS AND ROAD LIGHTING BASED ON PREDICTED SHORT TERM SOCIO-ECONOMIC IMPACTS

**ABSTRACT:**

In research conducted on a 6 km rural, two-lane road section in Finland during low visibility and winter weather conditions, information on traffic and weather conditions is input to a control system that executes the optimal decision (varying speed limits and roadway lighting intensity) on each road sections. The control system minimizes socio-economic costs (vehicle, time, environmental, lighting and crash costs), while maintaining an acceptable level of service.

**SOURCE(S):**

7th World Congress on ITS; Helsinki Traffic Information Centre of FinnRA, Finland

**Keyword(s):**

VSL, Lighting, Costs, Safety, Mobility